From: Washington, John [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FDC3E8CE9F1D45C4894881FF420CA104-WASHINGTON, JOHN]

Sent: 9/18/2018 1:44:31 PM

Lindstrom, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group To:

(FYDIBOHF23SPDLT)/cn=Recipients/cn=04bf7cf26aa44ce29763fbc1c1b2338e-Lindstrom, Andrew]

Subject: RE: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the northern transect

Agreed. I went back to the modeling report. Here are quotes from the report. **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Statements from the report:

Transport of air emissions would have been primarily in easterly directions consistent with the local wind patterns.

Transport of historical air emissions would have been primarily in easterly directions in accordance with the predominant wind patterns for the area.

The following provides a rank-order (top to bottom left, then top to bottom right) summary of the frequency with which the wind blows in a particular direction on an annual basis.

- Northeast (NE) = 10.8%
- East-southeast (ESE) = 8.8%
- Southeast (SE) = 8.5%
- North-northeast (NNE) = 8.2%
- East-northeast (ENE) = 7.9%
- South-southeast (SSE) = 7.6%
- East (E) = 7.0%
- North (N) = 6.3%

- South (S) = 5.9%
- Southwest (SV) = 5.8%
- West-southwest (WSW) = 5.8%
- West (W) = 4.2%
- North-northwest (NNW) = 3.6%
- West-northwest (WNW) = 3.2%
- Northwest (NW) = 3.1%
- South-southwest (SSW) = 2.5%

The predominant wind directions at the Plant are expected to have had an easterly component. based on the surface observations collected at the nearby Philadelphia International Airport. As a result, historical air emissions from the Plant are most likely to have been transported. predominantly in an easterly direction.

From: Lindstrom, Andrew

Sent: Tuesday, September 18, 2018 9:40 AM

To: Washington, John < Washington. John@epa.gov>

Subject: RE: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the northern transect

John,

Yeah. We have to make sure we know which way the wind is blowing.
Andy
From: Washington, John Sent: Tuesday, September 18, 2018 8:52 AM To: Pierce, Tom < Pierce. Tom@epa.gov > Cc: Lindstrom, Andrew < Lindstrom. Andrew@epa.gov >; Buckley, Timothy < Buckley. Timothy@epa.gov >; Pilant, Drew < Pilant. Drew@epa.gov > Subject: RE: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the northern transect Hi Tom,
I am in my office most of the time today. Andy G is stopping by this PM.
Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

So I am curious for you to see this document.

John

From: Pierce, Tom

Sent: Tuesday, September 18, 2018 8:28 AM

To: Washington, John < Washington. John @epa.gov >

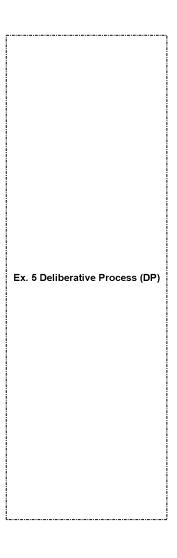
 $\textbf{Cc:} \ \, \underline{\text{Lindstrom, Andrew@epa.gov}}; \ \, \underline{\text{Buckley, Timothy@epa.gov}}; \ \, \underline{\text{Pilant, Drew}}$

<Pilant.Drew@epa.gov>

Subject: Re: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the northern transect

Sorry guys. I'm in Athens today and my laptop is back in RTP being refreshed. Hope to stop by John W's to be sure I understand where the plant, the sample locations, and the wind rose site are located Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)



Sent from my iPhone

On Sep 18, 2018, at 8:16 AM, Washington, John < Washington.John@epa.gov> wrote:

Drew,

I boiled down the data to three clear worksheets in the attached spreadsheet. These include all my sample data at this point. This also includes calculation of distance of each sample point from Solvay.

If you can send me maps, I can contour them for everyone's review and comments. The sooner the better. Ideally data points will include the numeric value adjacent to each.

I think maps that are useful would include:

1) 2) 3) Ex. 5 Deliberative Process (DP) 4)

John

From: Lindstrom, Andrew

Sent: Tuesday, September 18, 2018 8:04 AM

To: Buckley, Timothy < <u>Buckley</u>, <u>Timothy@epa.gov</u>>; Washington, John < <u>Washington</u>, <u>John@epa.gov</u>>;

Pilant, Drew < Pilant. Drew@epa.gov>

Cc: Pierce, Tom < Pierce. Tom@epa.gov>

Subject: RE: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the

northern transect

John,

Ex. 5 Deliberative Process (DP)

Andy

From: Buckley, Timothy

Sent: Monday, September 17, 2018 3:14 PM

To: Washington, John <<u>Washington.John@epa.gov</u>>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Pilant, Drew <Pilant.Drew@epa.gov>

Cc: Pierce, Tom < Pierce. Tom@epa.gov>

Subject: RE: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the

northern transect

Ex. 5 Deliberative Process (DP)

Tim

Timothy J. Buckley, PhD
Director of the Exposure Methods & Measurements Division
National Exposure Research Laboratory
109 TW Alexander Drive
Research Triangle Park, NC 27711

Email: buckley.timothy@epa.gov

URL: http://www.epa.gov/heasd/staff/buckley.html

Phone: (919) 541-2454 (O); FAX: -0239

Ex. 6 Personal Privacy (PP)

From: Washington, John

Sent: Monday, September 17, 2018 2:44 PM

To: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Pilant, Drew <Pilant.Drew@epa.gov>

Cc: Buckley, Timothy < Buckley. Timothy@epa.gov>

Subject: Internal deliberative: 0,1 Congener in soil vs distance from Solvay extended from the northern

transect

Interesting:

<image001.png>

<180918 Soil & Plant data summary for Drew.xlsx>